KOLMYKOVA, V.N.; YEROSHKINA, A.M.

So-called homologous properties of human normal and tumor cells. Vop. onk. 10 no.7:57-60 '64. (MIRA 18:4)

1. Iz laboratorii kul'tivirovaniya tkaney (zav. - deystvitel'nyy chlen AMN SSSR prof. A.D.Timofeyevskiy) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Elokhin). Adres avtorov: Moskva, I-110, ul. Shchapkina 61/2, korpus 9, Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR.

KOLMYKOVA, V.N.; SHERSHUL'SKAYA, L.V.

Cytological studies on rat leukosis caused by viruses of mouse hemocytoblastosis-reticulosis. Vop. onk. 10 no.9:54-57 (MIRA 18:4)

l. Iz laboratorii etiologii leykozov (zav. - doktor med.nauk N.P.Mazurenko) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Bloknin. Adres avtorov: Moskva, I-110, ul. Shchepkina, 61.2, korp. 9, Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR.

KOLNBERZ. V.K.

137-58-5-10763

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 269 (USSR)

AUTHOR:

Kolnberz, V.K.

TITLE:

The Corrosion Fatigue Strength of Metal Rods Employed for Intramedullar Fixation (O korrozionno-ustalostnoy prochnosti metallicheskikh sterzhney, primenyayemykh s tsel'yu intramedullyarnoy fiksatsii)

PERIODICAL: Ortopediya, travmatol. i protezir., 1957, Nr 5, pp 41-44

ABSTRACT:

Steels of grade EYaIT or 1Kh18N9T are now widely used to make the rods employed in medicine in the treatment of bone fractures. The rod corrodes electrochemically under the influence of the aggressive organic medium and long-term loading. To improve corrosion resistance it is necessary that much attention be given to careful treatment of the surfaces. It is also necessary to strive, by proper immobilization, to reduce variable stresses. It is necessary to seek new alloys with superior anticorrosion properties.

1. Bone--Fracture 2. Metals--Applications 3. Metals I.B.

Card 1/1

--Corrosion

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910005-3" Single-cycle parallel summation device using ferrites and transistors (summator without transfer). Trudy MEI no.41:
45-56 162. (MIRA 16:7)

(Electronic computers—Circuits)

KOL'NER, R. Yu., Physician

"Study of Acute Hepatitis in Children." Thesis for degree of Dr. Medical Sci. Sub 30 May 49, Second Moscow State Medical Inst imeni I. V. Stalin.

Summary 82, 18 Dec 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949</u>. From <u>Vechernyaya Moskva</u>, Jan-Dec 1949.

KOL'HER, R.Yu.

Classification of epidemic hepatitis in children. Pediatriia, Moskva (CIML 21:4)

No.3:25-29 May-June 51.

1. Of the Clinic for Children's Diseases of the Therapeutic Faculty, Second Moscow Medical Institute imeni Stalin (Director—Prof. N.I. Omiovskiy) attached to the Clinical Children's Hospital (Director—Honored Physician Ye.V. Prokhorovich).

TIMOSHENKO, Leonid Vasil'yevich, kandidat meditsinskikh nauk; KOL'NER.
R. Yu., redaktor; GITSHTEYN, A.D., tekhnicheskiy redaktor

[Hemolytic diseases of newborn infants; the Rh factor as a cause of hemolysis and its complications] Gemoliticheskie zabolevaniia novorozhdennykh; resus-faktor kak prichina gemoliza i ego oslozhneniia. Kiev. Gos. med. izd-ve USSR, 1956. 155 p. (MIRA 9:12) (INFANTS (NEWBORN)—DISMASES)

(INFANTS (MENSORN) -- DISHAS: (RH FACTOR) (HEMOLYEIS AND HEMOLISINS)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910005-3"

GOL'SHTEYN, Isak Moyseyevich, professor; VERSHININA, Klavdiya Il'inichna, kandidat meditsinskikh nauk; KOL'NER, R.Yu., redaktor; GITSHTEYN, A.D., tekhredaktor

[Policmyelitis and its prevention] Policmielit i ego profilaktika. Kiev, Gos. med. izd-vo USSR, 1956. 108 p. (MLRA 9:8) (POLICMYELITIS)

KOU'NER, N. Y...

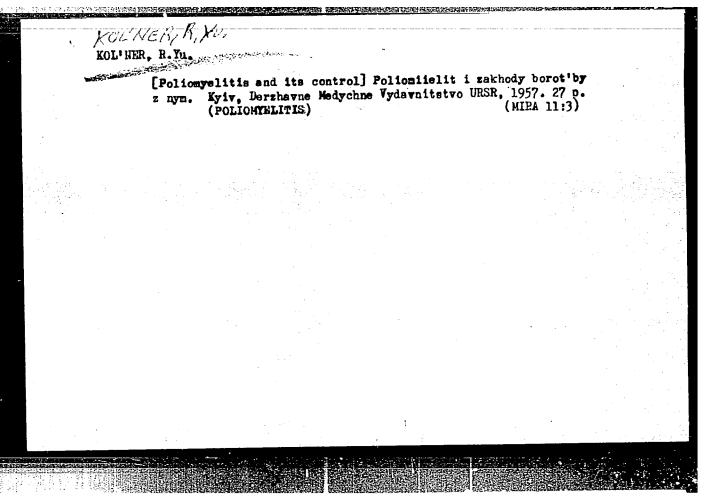
EHOKHOL, Ye. M., redaktor; BALABAN, V.G., redaktor; LOLUMER, P. Yu.,
redaktor; LUM'YAMOYA, Ye. M., redaktor; MAKSIMOVICH, FIT redaktor;
SIQALOV, D.L., redaktor; TIMOSHEMEQ, L.V., redaktor; LOHMATTY,
Ye. G., tekhnicheskiy redaktor

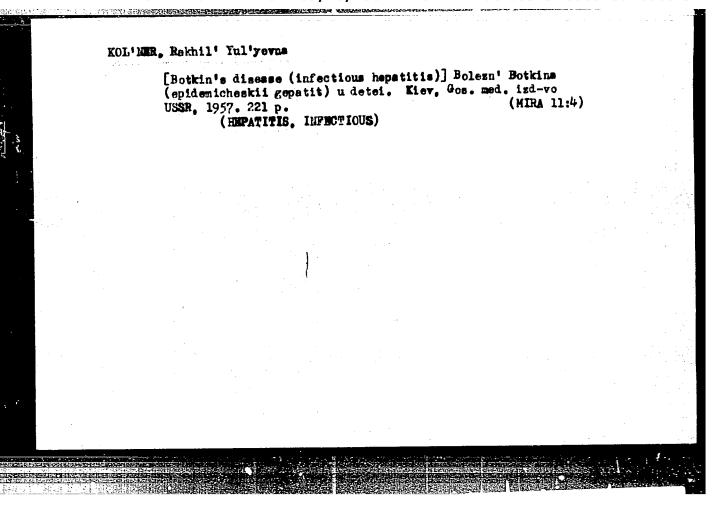
[Transactions of the second Congress of Pediatricisms of the
Ukrainian S.S.R. in 1955] Trudy III s'ends vrachei-pediatrov

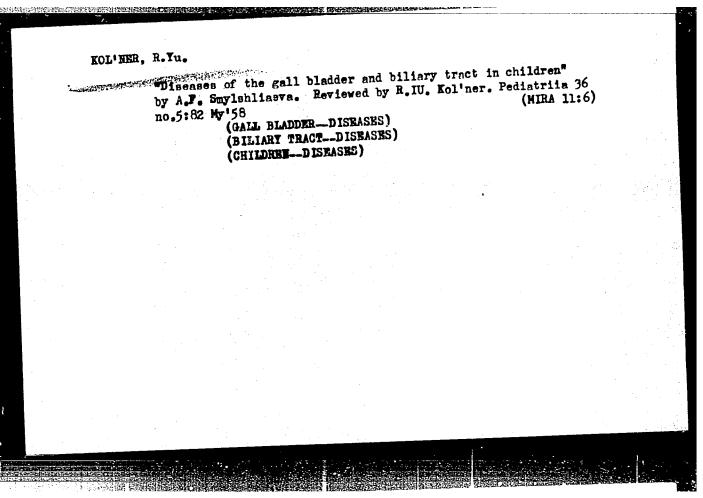
Ukrainskoi SSR, Red. kollegiis B.B. Ehokhol i dr. Eiev, Gos.
ned. ind-vo USSR, 1956. 314 p. (MIRA 10:4)

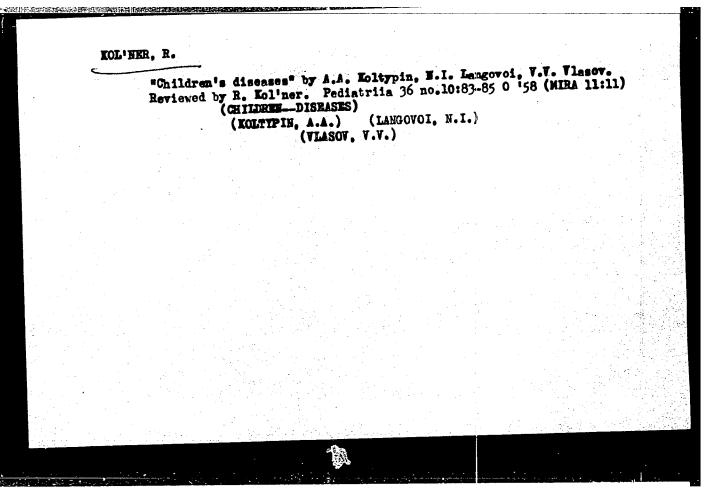
1. S'ezd vrachey-pediatrov Ukrainskoy SSR. 2d, 1955.

(PEDIATRICS)









KHOKHOL, Ye.N., prof., red.; BALABAN, V.G., prof., red.; KOL'NER, R.Yu.; SIGALOV, D.L., red.; LUK'YANOVA, Ye.M., kand.med.nauk, red.; ANDRUSHCHUK, A.A.,
kand.med.nauk, red.; BABKO, I.M., kand.med.nauk, red.; BYKOV, N.M., tekhm.red.

[Acute gastrointestinal diseases of non-dysenterial etiology in young children; proceedings of a Republic Meeting and Broadened Plenum of the Pediatrics Society of the Ukraine] Ostrye zheludochno-kishechnye zabolevanita nedizenteriinoi etiologii u detei rannago vozrasta; trudy. Red. koll.: E.N.Khokhol i dr. Kiev, Gos.med.izd-vo USSR, 1961. 199 p. (MIRA 14:11)

1. Respublikanskoye soveshchaniye i rasshirennyy plemum nauchnogo obshchestva detskikh vrachey Ukrayny, Odessa, 1959. 2. Chlen-korrespondent AMN SSSR(for Khekhol).

(DIGESTIVE ORGANS-DISEASES)

PEYSAKHOVICH, Iosif Mironovich, prof.; KOL'NER, Rakhil' Yul'yevna; KORENEV-SKIY, Leonid Ivanovich; LEVCHUK, Georgiy Antonovich; MAZURENKO, Nikolay Petrovich; POLONSKIY, Boris Leonidovich; SAVITSKIY, Vasiliy Nikolayevich; TELENGATOR, Yakov Moisyevich; UMANSKIY, Yulian Aleksandrovich; GLUZMAN, F.A., red.; RAYZ, A.L., tekhn. red.

[Drug therapy for malignant tumors] Khimioterapiia zlokachestvennykh opukholei. Kiev, Gos. med. izd-vo USSR, 1961. 304 p. (MIRA 14:11)

(CANCER)

MEDYANIK, R.V., otv. red.; PAP, A.G., cam. otv. red.; KEOKHOL,
Ye.N., red. [deceased]; LUK'YAHOVA, Ye.M., red.;
ANDROSHCHUK, A.A., red.; KOL'NIR, R.Yu., red.

[Pneumonia in young children] Pnevmoniia u detei rannego
vozrasta. Kiev, Zdorov'ia, 1965. 229 p. (MIRA 18:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut okhrany
materinutva i detatva.

KOLWER, S. V.

AID P - 4214

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 15/20

Author

: Kol'ner, S. V.

Title

: Broaches with Hard-Alloyed Blades to Precision Hole

Making.

Periodical: Stan. 1 instr.,  $\frac{27}{1}$ 1, 37-38, Ja 1956

Abstract

: Broaches made out of U8A-type steel are designed to cut holes for piston-pins in the ALLO aluminum-alloy pistons. These broaches are provided with 6 to 8 detachable blades made out of the VK8 or T15K6 hard alloy. They have been found more economical and

efficient than the previously used ones. Five drawings

and 1 picture.

Institution: None

Submitted : No date

30343 \$/193/61/000/011/007/007 h004/a101

1.1110

Kol'ner, S. V.

TITLE:

AUTHOR:

Electrochemical MA 31 deburring machine

PERIODICAL: Byulleten tekhniko-ekonomicheskoy informatsii, no. 11, 1961, 44-46

TEXT: The pilot model of the electrochemical MA 31 deburring machine has been developed by ENIMS and built at the "Stankokonstruktsiya" Plant in 1960. The technological operation process of the machine is based on the local electrochemical etching of the burrs using an aqueous solution of neutral salts. The machine is a vertical six-position semi-automatic with periodically revolving swivel table welded from sheet vinyl plastic. Stainless steel plates are mounted on the table for fixing the parts being processed. The positive pole of 12-20 v direct current is led to the plates, while the negative pole cable is connected to the working heads (cathodes) located on the brackets of the pneumatic hoist. Various plastics are used to prevent current leakage and protect the machine parts from corrosion. All metal parts are zinc-plated, coated with a protective chromium layer and painted. The working heads (cathodes) are selected in accordance with the shape and dimensions of the part being deburred. The cathode

Card 1/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910005-3"

36503

S/121/62/000/004/003/008 D040/D113

11110

AUTHORS:

Koliner, S.V., Moroz, I.I., and Kharlamov, I.P.

TITLE:

Semiautomatic MA-31 electrochemical deburring machine for metal

parts

PERIODICAL: Stanki i instrument, no. 4, 1962, 26-29

TEXT: The MA-31 (MA-31) vertical machine designed by ENIMS in 1960 and produced by the "Stankokonstruktsiya" Plant deburrs gears, discs, flanges, etc., in 15 to 120 sec using an electrolyte pumped into the gap between the work surface and the cathode face. The MA-31 has a welded metal frame with an immobile vertical column, and a periodically rotating six-position vinyl plastic table six stainless steel plates, 250 mm in diameter, with T-slots for fixing parts to be deburred. There is one station for loading and unloading, three for simultaneous deburring of three parts, one for blowing over with compressed air, and two for washing with a passivating solution and final air-blowing. The MA-31 accommodates parts up to 200 mm in diameter and 100 mm high and may be

Card 1/2

5/121/62/000/004/003/008 D040/D113 Semiautomatic MA-31 electrochemical.... used separately or in automatic lines. The electric control equipment which is placed in a separate cabinet includes a 600 amp, 20 v, d.c. rectifier. The electrolyte is pumped by a conventional electric pump and is a 10-20% aqueous solution of sodium chloride, sodium nitrate, or sodium sulfate and other salts with 3-5% sodium tartrate or sodium citrate addition to eliminate sediments. Plastics, chromium, zinc and paint are used for corrosion protection and textolyte and vinyl chloride for electric insulation. The machine design and operation is described and technical recommendations given. The principle of local electrochemical deburring used in the MA-31 is recommended for application in other machines, and particularly in large-lot and mass production of parts. It is stressed that the process can be fully automated, and that the costs of equipment, materials and electric power are low. There are 4 figures. Card 2/2

KOL!NER, Semen Vladimirovich; KISELEVA, N.P., insh., red. red.; EER,
I.Ya., inzh. red.; SOROKINA, T.M., tekhn. red..

[Deburring gear wheels]Zachiatka zausentsev zubchatykh koles.

Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958.

19 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt.

Tema 10. No.M-58-84/15)

(Gear cutting)

(Gear cutting)

97-58-1-2/12

AUTHOR:

Ratts, E.G. Candidate of Mechanical Science.

Kholmyanskiy, H.M. Candidate of Mechanical Science.

Kol ner, V.M., Engineer College and College.

TITLE:

Transfer of Stresses from Tensioned Reinforcement on Concrete. (Peredacha armaturoy predvaritel nykh napryazheniy na beton)

HRIODICAL 2

Beton i Zhelezobeton. 1958. No. 1 USSR Pp 4-13.

ABSTRACT:

The transfer of stresses in concrete begins at the end of prestressed concrete products (vide Figure 1) Stresses could be calculated from a formula of equilibrium as shown. Investigations of these stresses were carried out in the laboratories of VNIIZhelezobeton under the leadership of E.G. Ratts. Associated with him were F.S. Belavin and L.P. Serdva. Figure 2 illustrates various types of reinforcement used for tests and Table 1 tabulates characteristics of the reinforcements used. Tensioning in the reinforcements was measured by a "dynamometer" - DP-2. This instrument was constructed by the all-Soviet Scientific and Research Institute of the Ministry for Transportation Construction (Vsesoyuznyy Nauchno-issledovatel'skiy Institut Transportnogo Stroitel'stva Mintransstroya

SSSR) (See article by N.M. Bogin in Beton i Zhelezobeton 1956 No.3)
The measurement of the displacement of reinforcement in concrete was

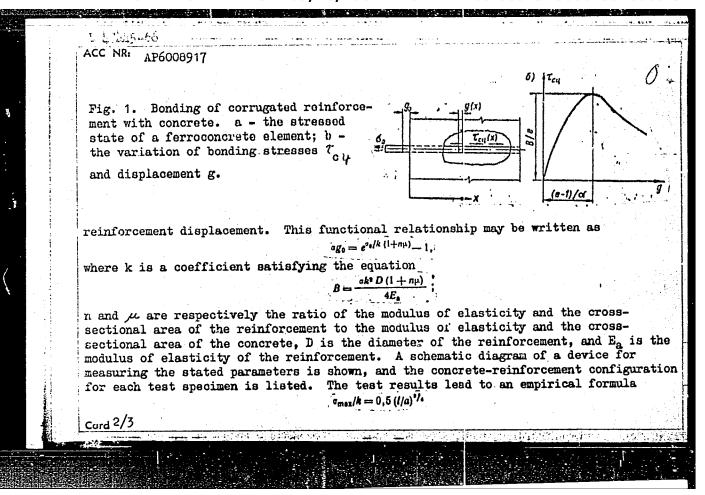
Card 1/2

Transfer of Stresses from Reinforcement on Concrete.

carried out by a microscope, magnifying 120 times, with an occular micrometer attached . AM-92. The accuracy of this instrument is 2-4 microns. Figure 3 illustrates laboratory testing equipment for casting pretensioned reinforced units. Figures 4,5 and 6 show graphs obtained during testing of stresses between reinforcement and concrete in prestressed reinforced testing samples with various reinforcements and qualities of concrete. Figure 8 shows relationship of described stresses as being the function of the depth of "setting in". Type TP reinforcement of 4 m.m diameter and various profiles was used. Figure 9 illustrates graphs giving empirical coefficients in relationship to the strength of the concrete. Distribution of of stresses at the ends of testing units caused by tensions between reinforcement and concrete was investigated and formulae are given. Experimental checking of mathematical calculations and practical recommendations are discussed. Table 2 gives figures for lengths of anchoring zones for various profiles of reinforcement and Table 3 gives recommendations for actual calculation of the length of the anchoring zone of standard reinforcement. Figure 14 shows a curve defining lengths of the anchoring zone and Figure 15 the distribution of normal stresses in the reinforcement in the zone. There are 15 Figures and 3 Tables. 1. Reinforced concrete--Properties 2. Reinforcing steel--Stresses

Card 2/2.

-	
L 17415-66 ENF(a)/EMF(v)/T MANH  ACC NR AP600891? (A) SOURCE CODE: /UR/0097/65/	/000/011/0025/0027
AUTHORS: Kol'ner, V. M. (Candidate of technical sciences); Aliyev, & Gol'dfayn, B. S. (Engineer)	Sh. A. (Engineer);
ORG: none	30
TITLE: Adhesion and the strength of the bond between concrete and coreinforcement	orrugated rod
SOURCE: Beton i zhelezobeton, no. 11, 1965, 25-27	
TOPIC TAGS: concrete, ferroconcrete, adhesive bonding, bonding prop concrete	erty, reinforced
ABSTRACT: The relationship between the interaction of reinforcement involves the mutual displacement of both materials. The bonding strathed displacements $g(x)$ by the formula $\frac{\tau_{cu} = B}{1 + \sigma g}$ and is schematically represented in Fig. 1. An experimental study in parameters B and $\alpha$ for corrugated rod reinforcement, and analysis of factors influencing these values is carried out. The numerical value parameters may be obtained by an experiment through the measurement displacement of reinforcement and concrete as a function of the variation of the variation.	s made of the f the basic e of the bonding of the mutual
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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910005-3"

KHOLMTANSKIT, M.M., kand.tekhn.nauk (Moskva); KOL!NER, V.M., kand.tekhn.nauk (Moskva); MICHURIN, V.F., inzh. (Moskva); SEROVA, L.P., inzh. (Moskva); TEVELEV, Yu.A., inzh. (Moskva)

Study of the action of transverse elements of large-panel apartment houses. Issl. po teor. scoruzh. no.142169-184 465. (MIRA 18:10)

# Effect of the stress transmission on the distribution of preliminary stresses in anchorage sones. Bet.i shel.-bet. no.7:319-321 Jl '60. (MIRA 13:7) (Prestressed concrete) (Strains and stresses)

KOLNER, V. M. Cand Tech Sci- (diss) "Tenacity of wire in periodic section with concrete during prestreesing operation," Moscow, 1960, 16 pp, 160 cop. (Moscow Engineering Construction Institute im V. V. Kuynyshev) (KL, 45-60, 125)

KHOLMYANSKIY, M.M., kand.tekhn.nauk; KOL'NER, V.M., kand.tekhn.nauk; YUKHVETS, I.A., kand.tekhn.nauk; GAROYAN, V.A., inzh.

Reinforcement made of high-strength wire with a double profile.

Bet.i zhel.-bet. no.6:257-261 Je '61. (MIRA 14:7)

(Concrete reinforcement)



KHOLMYANSKIY, M.M., kand.tekhn.nauk; KOL'NER, V.M., kand.tekhn.nauk; SERGVA, L.P., inzh.

Differentiated designation of the minimum strength of concrete.
Bet. i zhel.-bet. no.ls12-16 Ja '62. (MIRA 15:4)

(Concrete--Testing)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910005-3"

KHOLMYANSKIY, M.M., kand.tekhn.nauk; KOL'NER, V.M., kand.tekhn.nauk;
SEROVA, L.P., inzh.

Effect of some structural and technical factors on the bond of
wire reinforcement with concrete. Sbor. trud. NIIZHelezobetona
(MIRA 16:3)

(Concrete reinforcement—Bond)

s/058/62/000/005/063/119 A057/A101

16.8000

TITLE:

Kolnik, S.

AUTHOR:

On the optical investigation of standing ultrasonic waves in a transparent liquid

Referativnyy zhurnal, Fizika, no. 5, 1962, 46, abstract 50420 ("Acta Fac. rerum natur. Univ. Comenianae. Phys.", 1961, v. 5, no. 7, 343-378, Slovakian; Russian and German summaries) PERIODICAL:

The problem of obtaining optical images of standing ultrasonic waves (UW) in a transparent liquid by means of plane light waves, which pass thro the UW-field perpendicularly to the axis of the UW-beam, is discussed. The Laring of the device for obtaining pictures of standing UW represents a collimator objective, forming plane light waves, which pass the container with the investigated UW-field. The optical image of the UW-field is calculated by several simplifications using integrals known from the general theory of diffraction. Using them, the light field in the focal plane of the picturing objective and in the plane of formation of the real picture of disturbances can be calculated if the distribution of the light field in the region of its disturbance by

APPROVED FOR RELEASE: 09/18/2001

C1A-RDP86-00513R00082391000

8/194/62/000/007/088/160 D295/D308

16.72001

AUTHOR:

Kolnik, S.

TITLE:

Investigations into the possibility of obtaining optical images of ultrasonic standing waves

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no.7, 1962, abstract 7-5-48 u (Acta Fac. rerum natur. Univ. Comenianae, Phys., 5, no. 7, 1961, 343 - 378 [Slovek; summaries in Rus. and Ger.])

TEXT: The problem of obtaining direct images of ultrasonic stand-ing waves in a transparent liquid by means of various screening methods is considered. It is pointed out that, in this connection, primary use is made of the diffraction of light by the ultrasonic phase pattern arising from variations of the index of refraction in the liquid. The following assumptions are made: the light wave generated by the collimator system with a linear slit intersecting the optical axis is assumed to be plane; in a liquid of very low viscosity the refractive index varies harmonically; departure from monochromaticity connected with changes of refraction index is neg Card 1/4

#### APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910005-3"

\$/194/62/000/007/088/160

Investigations into the possibility

gligible; there is no absorption of light and ultrasound; the ultrasonic pattern causing FM and AM of light is assumed to be plane. A detailed derivation is given for the formula of the image function in terms of the parameters of the ultrasonic pattern and of a function characterizing the method of symmetrical screening of the diffraction picture. A formula is also derived for the distribution of the average illumination in the image plane. In deriving this formula use is made of the proportionality of illumination to the square of the absolute value of the image function. The formula makes it possible to determine the variation of the refractive index in the phase structure of the ultrasonic pattern and thus to assess the character of the ultrasonic standing wave on the basis of the diffraction picture obtained with different methods of symmetrical screening, i.e. to assess its monochromaticity, amplitude and geometry. Simplifications in the calculation of illumination are made. The illumination distribution formula is analyzed for the case of absence of screening; for a screening method similar to the darkfield method; for a different degree of screening and the analog of the phase-contrast method. An experimental set-up for obtaining light diffraction from the ultrasonic standing wave is described. Card 2/4

S/194/62/000/007/088/160

Investigations into the possibility ... D295/D308

simple and multiple reflection, and ultrasonic absorption. The investigation of surface waves by this method can be applied, under certain conditions, to modelling of the infrasonic region and be used in seismology. 7 figures. 20 references. [Abstracter's note: Complete translation.]

# KOLNIK, Stanislav

A simple explanation of the movement of light ray in the full reflex. Mat fyz cas 12 no.3:235-240 162.

1. Katedra fysiky, Universita Komenskeho, Smeralova 2, Bratislava.

PARAFENYUK, M.G.; KOL'NIKOV, B.N.

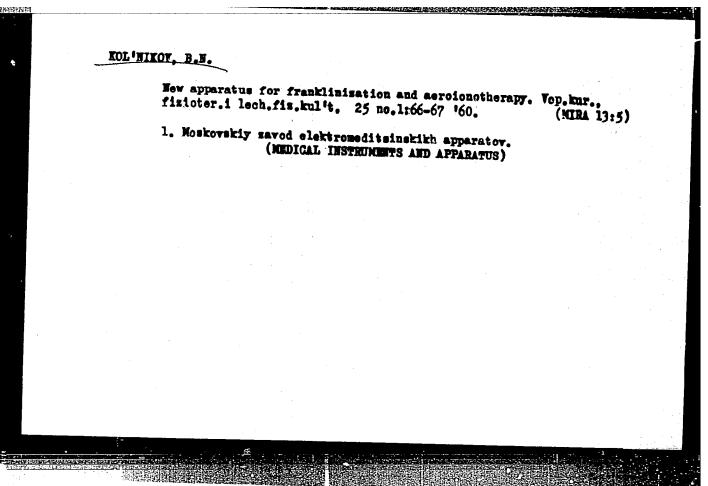
New apparatus for franklinization and aeroionization. Med.prom. 13 no.11:45-47 N '59. (MIRA 13:3)

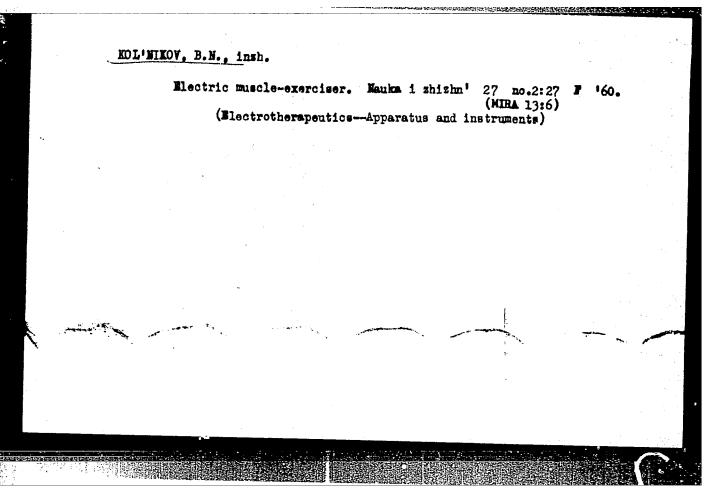
1. Moskovskiy zavod elektromeditsinskoy apparatury.
(ELECTROTHERAPEUTICS--APPARATUS AND INSTRUMENTS)

KOVTUN, G.I.; KOL'NIKOV, B.N.

Modernisation of apparatus for the electrostimulation of muscles. Med.prom. 14 no.6:51-53 Je '60. (MIRA 13:6)

1. Moskovskiy savod elektromeditsinskoy apparatury. (MLMCTROPHYSIOLOGY)





GOL'DSHTEYN, A.I.; KOL'NIKOV, B.N.

Moscow Electromedical Apparatus Flant and its campaign for technological progress. Med. prem. 15 no.3:24-27 Mr '61.

(MEDICAL INSTRUMENTS AND APPARATUS)

(MIRA 14:5)

8/076/62/036/010/001/005 B101/B186

AUTHORS:

TITLE:

Kolninov, O. V., and Zvonkova, Z. V.

Study of the dependence of the electron absorption spectra of phenyl derivetives of elements of groups IV and V on the

nuclear potentials of the elements

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 10, 1962, 2228-2230

TEXT: The effects of the nuclear potential 2%/r and difference A in electronegativity of atoms in the element a carbon bond of isomorphic electronegativity of atoms in the element carbon bond of The tetraphenyl compounds of G, Si, Ge, Sn, and Pb were studied. The tetraphenyl compounds of G, Si, Ge, Sn, and Pb were determined in electron absorption spectra in the region 225 -320 mm were determined in electron absorption spectra in the region (C, H) Ph. all anactra were correctly in lambdage Sm thick. Except for (C, H) Ph. all anactra were electron absorption spectra in the region (C6H5) 4Pb, all spectra were crystalline lamellas ~5µ thick. Except for (C6H5) 4Pb, all spectra were

of the same type and showed two absorption bands, the first of which or one same type and showed two absorption being to the phenyl occured at 250 - 280 mp owing to electron transition in the phenyl redicals from the ground state into the arcited state. radicals from the ground state into the excited etate. This band shows radicals from the ground state into the excited rease. This wand shows fine structure bands which, compared to the benzene spectrum, are shifted tine attractive names within compared to the paners of the the of the

Card 1/3

Study of the dependence of the electron ...  $\frac{5/076/62/036/010/001/005}{B101/B186}$ 

central atom, however, does not occur. Conclusion: In tetraphenyl compounds of C, Si, Ge, Sn, and Pb,  $\pi$ -electron conjugation of the phenyl radicals with the central atom is almost completely absent, and the  $\pi$ -electron system of the benzene rings remains almost unchanged. In the second band ( $76.250 \text{ m}\mu$ ) of  $(C_6H_5)_4Ge$ , the absorption edge, as compared to that of  $(c_6H_5)_4$ Si and  $(c_6H_5)_4$ Sn, shows a shift of some mµ towards the short wave region. In accordance with H. H. Jaffe (J. Chem. Phys., 22, 1430, 1954), this effect is assumed to be caused by the central atom. The origin of the second band, howevers has not been investigated sufficiently. On the basis of data obtained by Jaffe for the electron spectra of triphenyl compounds of P, As, and Sb, the phenyl radicals are assumed to conjugate owing to the free electron pairs of the central atom. Thus the shift of the first band probably depends on the type of central atom; from this shift, the change in excitation energy of pn-electrons is estimated to be of the order of 0.1 ev depending on Z /r of P, As, and Sb. Further studies are required to explain the relation between the mobility of holes in InP, InAs, and InSb (650, 200, and 700 cm<sup>2</sup>/v·sec, respectively) and the ligand. There are 6 figures.

S/076/62/036/010/001/005

Study of the dependence of the electron ... B101/B186

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED: December 2, 1961

ZVONKOVA, Z.V.; KOLNINOV, O.V.

Dependence of interatomic distances in crystalline structures on the ligand field. Zhur. fiz. khim. 37 no.12;2778-2780 D '63. (MIRA 17:1)

1. Fiziko-khimicheskiy institut imeni Karpova.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910005-3"

DOROSINSKIY, A.L.; KOLNINOV, O.V.; ZVONKOVA, Z.V.; ZHDANOV, G.S.

X-ray and spectral studies of the complex compounds of cuprous thiocyanate with thiourea and pyridine. Dokl. AN SSSR 150 no.6:1278-1279 Je 163. (MIRA 16:8)

1. Fiziko-khimicheskiy institut im. I.Ya. Karpova. Predstavleno akademikom S.S.Medvedevym.

(Copper compounds--Spectra) (Thiocyanates) (Urea)

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A	AUTHOR: Terent'yev, A.P. (Corresponding member All SSSR); Vozzhennikov, V. M.;	
<u> </u>	olninov. O. V.; Zvonkovz, B. V.; Ruknauze, 12.	্র গভারতক
- <b>V</b>	TITLE: Semiconducting and optical properties of copper, nickel, zinc, and cadmium	
'   'I	lithiocarbamates	
_	В	
9	BOURCE: AN SSCR. Doklady, v. 160, no. 2, 1965, 405-408	
	TOPIC TAGS: copper dithiocarbanats, nickel dithiocarkamate, zinc dithiocarbamate,	
	optical property, organic semiconductor, chelate electrical property, polychelate con-	
4	ductivity, activation energy	
<b>*</b>   ,	ABSTRACT: This paper is part of a study of a series of chelates and polychelates aimed	
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	at determining the dependence of their electrical properties on horizontal semicon-	
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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000823910005-3"

EWI(m)/EWP(j) SOURCE COLE: UR/0020/66/168/006/1327/1330 L 41220-56 ACC NR: AP6023209 AUTHOR: Kolninov, O. V.; Terent'yev, A. P. (Corresponding member AN SSSR); Zvonkova, Z. V.: Rukhadze, Ye. G. ORG: Physicochemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut); Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet) TITLE: Study of the photoemf and electron spectra of certain dithiocarbamate compounds of transition metals SOURCE: AN SSSR. Doklady, v. 168, no. 6, 1966, 1327-1330 TOPIC TAGS: chelate compound, transition metal compound, electron spectrum, photoconductivity, photo emf ABSTRACT: Curves of the spectral distribution of photoemf were recorded in the range of 42,000-12,000 cm<sup>-1</sup> for the four chelates Cu[(C2H5)2NCS2]2, Cu[(CH2)6NCS2]2, Ni[(C2H5)2NCS2]2 and Co[(C2H5)2NCS2]31 The electron absorption spectra were measured with an SP-700 recording spectrophotometer. Four types of new bands were found: (1) d-d, due to transitions between split levels of the central metal atom, (2) bands of charge transfer between atoms of the ligand and metal (m -d transitions), (3) bands of charge transfer between atoms of ligand and metal in o orbitals, and (4) bands corresponding to transitions within the NCS2 ligand  $(n \rightarrow \pi^*, \pi \rightarrow \pi^*, n \rightarrow \sigma^*)$ . Comparison of the photoems spectra and absorption spectra showed that the principal ligand - metal UDC: Card 11/2

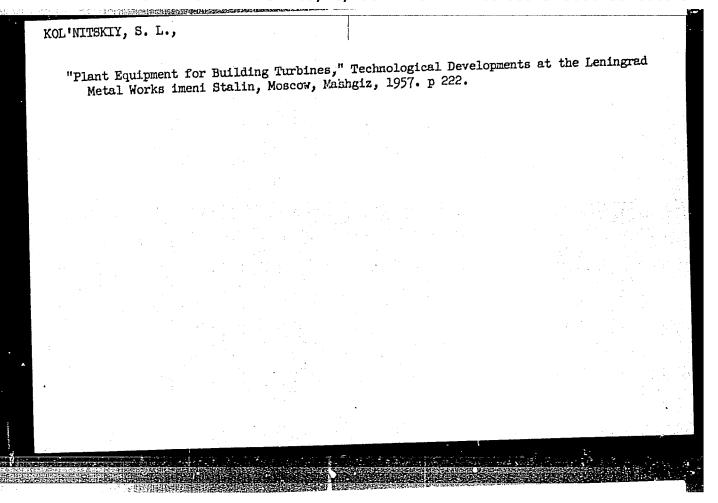
ACC NR: AF6023209

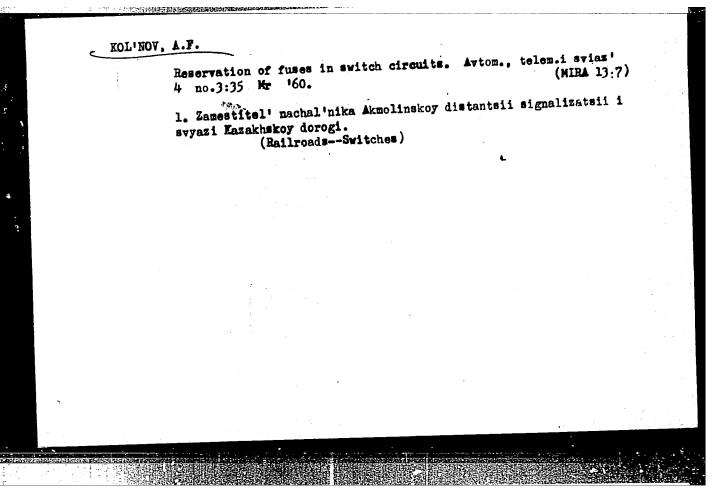
interaction occurs via the g bonds. The data obtained shed some light on the mechanism of photoconductivity in chelate compounds with transition metals: in the first stage, there is a transition of electrons from the ligands to the antibonding orbital g\*, there is a transition of electrons from the ligands to the second stage, the localized at the metal atom (for example, d.2., g for Cu); in the second stage, the charge carriers are transferred to the neighboring molecule by the tunnel mechanism without any activation energy. All compounds studied were found to have hole photoconductivity. The important role of the central metal atom in the mechanism of photoconductivity is also discussed. Orig. art. has: 3 figures.

SUB CODE: 07,20/ SUEM DATE: 06Dec65/ ORIG REF: 002/ OTH REF: 002

	Effect of pht patients with 40 160.	chivazid on the blood h hemoptysis and hemor (ISONICOTINIC ACID)	Tronga	(M)	iberculosis no. 5:36- IRA 14:1)	
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Change in the control frequency level regulating circuit.

Avtom., telem.i sviaz' 6 no.4:35 Ap '62. (MIRA 15:4)

1. Zamestitel' nachal'nika TSelinogradskoy distantsii signalisatsii i svyazi Kasakhskoy dorogi. (Telephone)

*	A new method for synchronizing high-frequency ME-8 apparatus.  Avtom., telem. 1 sviaz 7 no.2:34 F 163. (MIRA 16:3)
	l. Zamestitel' nachal'nika TSelinogradskoy distantsii signalizatsii i svyazi Kasakhskoy dorogi. (Railroads—Communication systems) (Railroads—Electronic equipment)

KOL'NOV, A.F.

Suggestions of the participants of a "railroad conference on the exchange of experience." Avtom., telem. i sviaz' 8 no.5:30 My '64. (MIRA 17:10)

1. Zamestitel' nachal'nika TSelinogradskoy distantsii Kazakhskoy dorogi.

SOV/91-59-2-3/33

AUTHORS:

Dykhno, A. Yu., and Kolobakina, N. S., Engineers

TITLE:

The Cleaning of Condensate from Oil (Ochistka kondensata ot masla)

PERIODICAL:

Energetik, 1559,7 Nr 2, pp 7 - 9 (USSR)

ABSTRACT:

The article describes the experience acquired by the heat and power plant of an oil processing plant in cleaning the condensate which is subject to return from the plant. Preliminary cleaning was accomplished by allowing the condensate to settle in the settling tanks where, after 60 hours, the content of oil was decreased from 500-700 to 50-60 mgr per liter. The final cleaning was performed in a special three-stage plant that included a coagulation station with brightening filters (first stage), absorbing filters (second stage), and water softening filters of sulphocarbon type (third stage). The article describes the details of treatment of the condensate at all three stages of cleaning, with the following resumé: - Return of condensate from the plant was increased by 14-16%, then by50%, with the use of this cleaning method. Allowing the oil to settle

Card 1/2

SOV/91-59-2-3/33

The Cleaning of Condensate from Oil

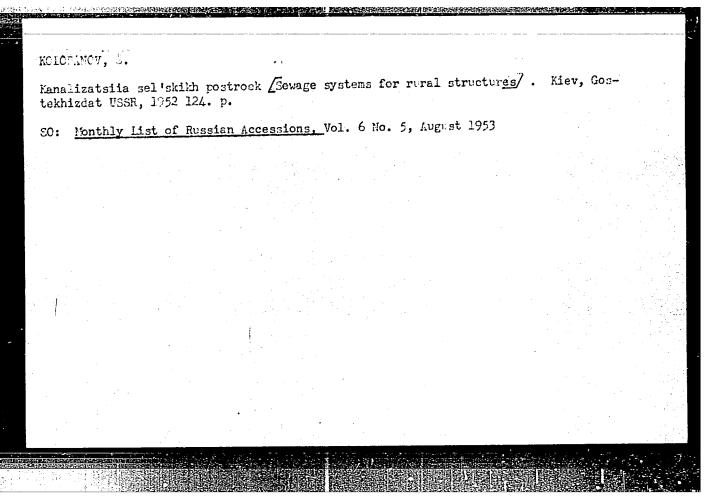
in settling tanks alone resulted in a ten-fold decrease of oil content in the condensate. This method of cleaning not only removed oil, but also removed the ferrous and copper oxides. Preliminary treatment of filters with air blast greatly reduced the need for water by the plant. It was disocvered that the alkalinity of condensate showed an increase after it had passed through the sulphocarbon filters. Use of acidulator (strong sulfuric acid) led to intensive corrosion of tanks and an increase in ferrum content in the condensate up to 8 mgr/liter. It was replaced by way of regeneration of the Na-cationite filters ("Na-kationitovyye") with salt brine. The plastic caps, VTI-K, used in the process were found to be faulty and their use was discontinued by way of introduction of a capless system of filter drainage. There is one table and four diagrams.

Card 2/2

KOLOBANOV, A.A. MAKSIMOV, VI, i MALYSHKIN, K.N.

24960 Malychkin, K.N. Maksimov, VI i Kolobenov, A.A. Vnedreniye I Eksploatatsiya Kontrol'No- Ismenitel'Ykh Pribofov. Sumazh. Prom-st' 1949 No 3, s 35-38.

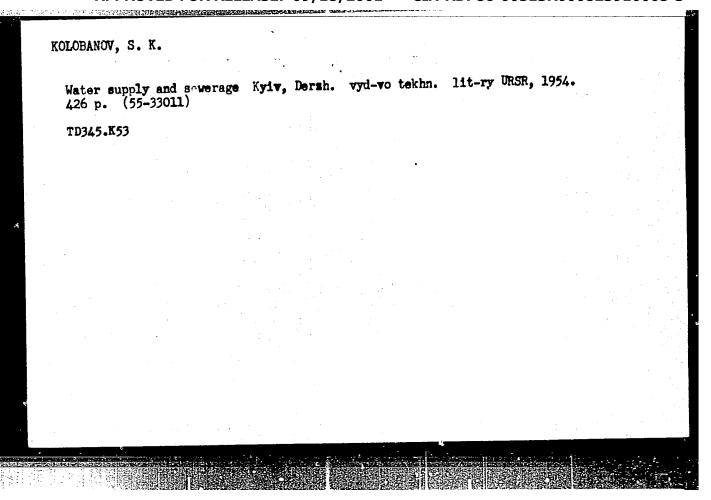
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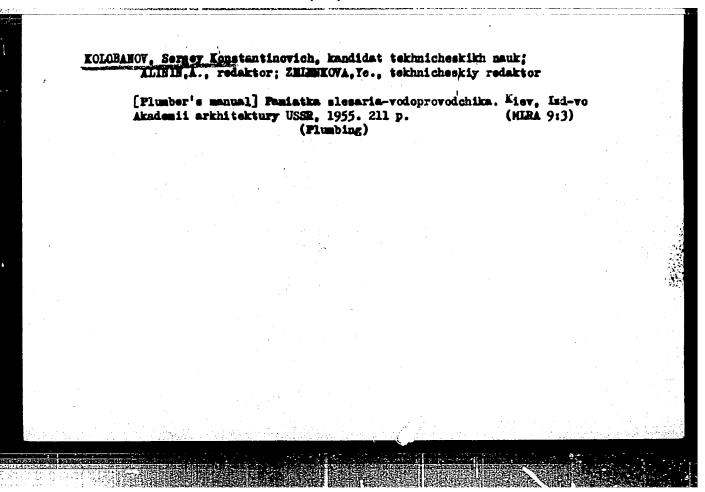


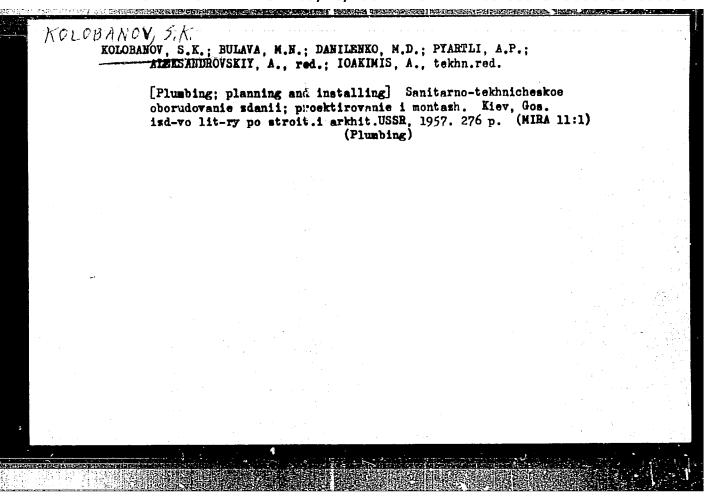
KOLOBANOV SELECT PEREVALOV. V.G.; BULAVA, M.N., redaktor; MINEVICH, I., tekhnicheskiy redaktor.

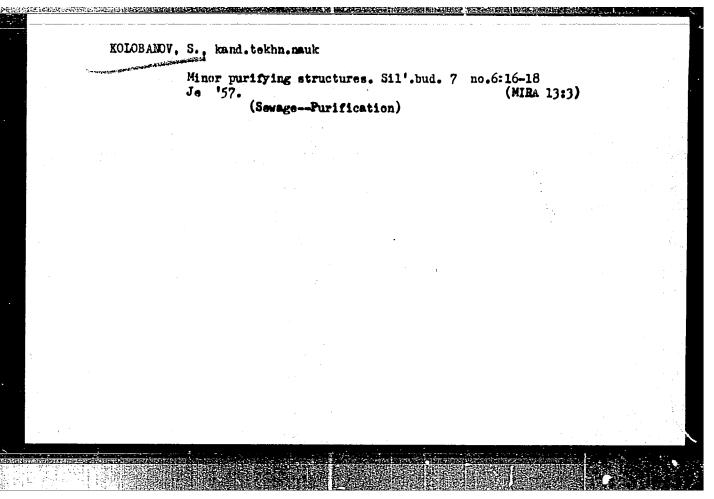
[Supplying water to construction sites] Vodosnabshenie stroitel'nykh ploshchadok. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1953.
140 p. (MIRA 8:2)

(Water supply) (Building)

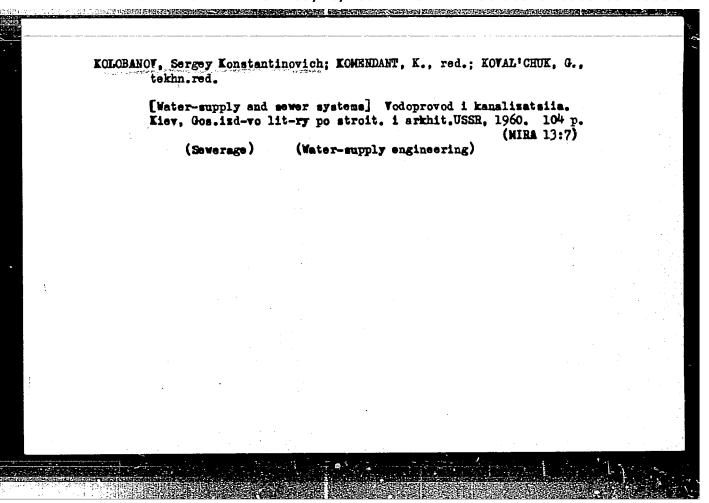








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SHISHKIN, Zakhar Nesterovich; KARELIN, Yekov Aleksandrovich, dotsent; KOLOBANOV, Sergey Konstantinovich, dotsent, kand. tekha.nauk; YAKOVLEV, Sergey Vasil'yevich, doktor tekha.nauk; ZHUKOV, A.I., prof.; GULYAYEV, N.F., kand. tekha.nauk; SUKHIY, P.A., inzh., retsenzent; POPOVA, N.M., kand. tekha.nauk, retsenzent; SMIRNOVA, A.P., red. izd-va; GILENSON, P.G., tekha.red.; TEMKINA, Yo.L., tekha.red.

[Sewerage] Kanalizatsiaa. Izd.2., ispr. Pod red. A.I.Zhukova. Moskva. Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. 1960. 592 p. (MIRA 14:4)

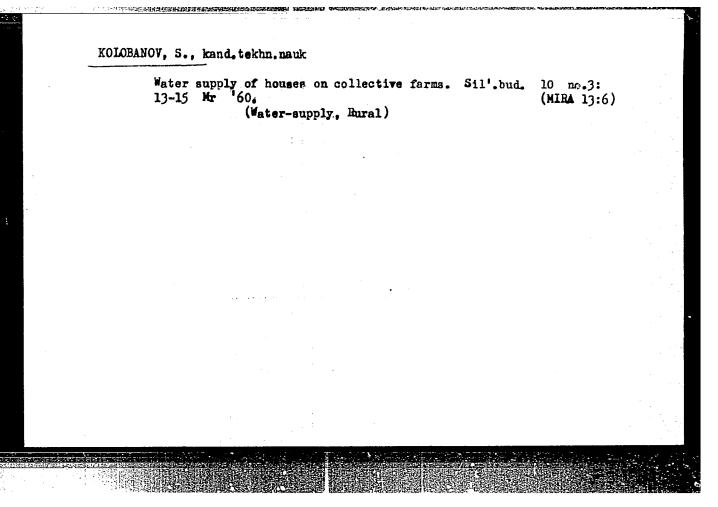
(Sewerage)

KOLOBANOV, S.; KIGEL', Ye.

Removing snow by dumping it into sewer systems. Zhil.-kom.
khoz. 10 no.1:23-25 '60. (MIRA 13:5)

1. Glavnyy inshener slushby kanalizatsii Upravleniya vodokanalizatsii, Kiyev (for Kigel').

(Kiev-Snow removal)



Froviding collective-farm houses with sanitary-engineering installations. Sil'.bud. 10 no.5:14-17 ky '60.

(Wira ine--Sanitary engineering)

KOLOBANOV, S.K., kand. tekhn. nauk; KRASNITSKIY, M.S., kand. tekhn. nauk; MIZETSKIY, B.G., inzh.; UGINCHUS, A.A., doktor tekhn. nauk, red.; SUHYGINA, E., red.; NARINSKAYA, A., tekhn. red.

[Hydraulics of structures and pipes] Gidravlika socruzhenii i truboprovodov; sbornik statei. Pod red. A.A. Uginchusa. Kiev, Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1961. 122 p. (MIRA 14:6)

1. Akademiya stroitelistva i arkhitektury USSR. Institut vodosnabsheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii.

(Hydraulics)

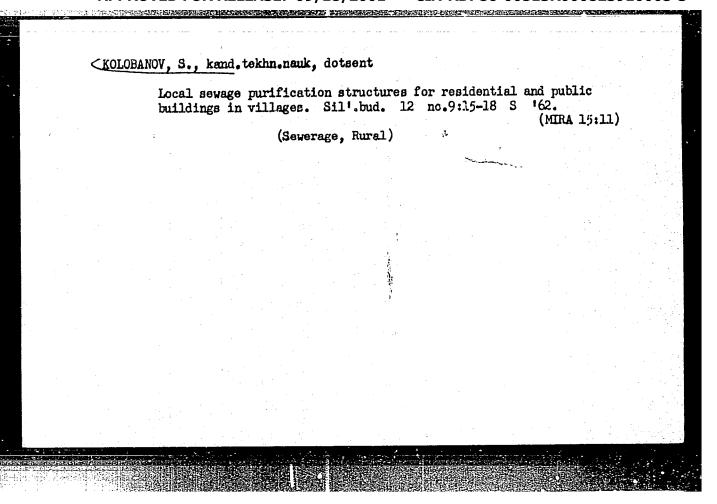
KOLOBANOV, Sergey Konstantinovich, kand. tekhn. nauk; BERGER, K.V., red.; LEUSHCHENKO, N.L., tekhn. red.

[Water supply and severage] Vodopostachannia i kanalizatsiia.

[Water supply and sewerage] Vodopostachannia i kanalizatsiia.

Kyiv, Derzhbudvydav URSR, 1962. 345 p. (MIRA 15:6)

(Sewerage) (Water-Supply engineering)



KOLOBANOV, Sergey Konstantinovich, kand. tekhn. nauk; SURYGIMA, E., red.; YEREMINA, I., tekha. red.

[Handbook for the sanitary engineer] Pamiatka santekhnika.

Kiev, Gosstroiizdat USSR, 1963. 167 p. (MIRA 16:5)

(Plumbing)

KOLOBANOV, S., kand.tekhn.nauk, dotsent

Technical indications for designing sewage systems in residential and public buildings in rural areas. Sil'.bud. 13 no.10:8-9 0 '63. (MIRA 17:3)

ZHUKOV, Aleksandr Ivanovich, prof., doktor tekhn. nauk; KARELIN, Yakov Aleksandrovich, prof.; KOLOBANOV, Sergey Konstantinovich, dots., kand. tekhn. nauk; YAKOVLEV, Sergey Vasil'yevich, prof.; LUKINYKH, N.A., kand. tekhn. nauk, retsenzent; MONGAYT, I.L., kand. tekhn. nauk, retsenzent; SHKUNDIN, R.F., inzh., retsenzent; SKVORTSOVA, I.P., red.

[Sewerage] Kanalizatsiia. Izd.3., ispr. i dop. Moskva, Stroiizdat, 1964. 641 p. (MIRA 18:2)

KOLOBANOV, Sergey Konstantinovich; MAZURENKO, Lyubov' Georgiyevna;

[Industrializing sanitary engineering operations] Industrializatsiia sanitarno-tekhnicheskikh rabot. Kiev, Budivel'nyk, 1965. 27 p. (MIRA 18:6)

KOLOBANOV, Sergey Konstantinovich; KOLESHIK, K.S., red.

[Design and calculation of biological filters] Freektirovanie i raschet biologicheskikh filtrov. Kiev, Sudiveltnik, 1965. 25 p. (MIRA 18:9)

# KOLOBANOV, V. A.

Dissertation defended for the degree of Candidate of Philological Sciences at the Institute of Russian Literature (Pushkin House)

"Social-Literary Activity of Seropian-Vladimirskiy."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

L-02991-67-- EWY(m)/EWP(t)/ETI--IJP(c)--MJW/JD/JG ACC NR AP6033155 SOURCE CODE: UR/0105/66/000/010/0082/0083 77 AUTHOR: Gorina, N. B.; Gruznov, Yu. A.; Kolobanov, V. V.; Matorin. V. I.; Prokoshin, A. F.; Rad'kov, A. I.; Sokolov, V. I.; Tret'vakov. B. N.; Fedotov, L. N.; Khromov, S. M.; Kuleshov, V. F. ORG: Central Scientific Research Institute of Ferrous Metallurgy im, I. P. Bardin (Tsentral nyy nauchno-issledovatel skiy institut chernoy metallurgii) TITLE: The 65BT superconducting alloy SOURCE: Elektrichestvo, no. 10, 1960, 82-83 TOPIC TAGS: superconducting alloy, superconductivity ABSTRACT: A new, relatively low cost Nb-Ti based alloy, designated 65BT, which meets all the major requirements for superconductors has been developed. Because of its properties it can be used in 1) magnetizing devices, such as superconducting solenoids, for field strengths varying from 20 to 80 koe, and 2) wires 0.1-0.3 mm in diameter and up to 12,000 m long and tapes 5 µ thick. The alloy, which contains 65% niobium, 25% titanium, and several other components, is produced in Card 1/2 UDC: 537.312.62

KOLOBANOV, E. V.

"Construction and Operating Principles of Fileboxes for Use of Cut Peat." (in Russian) Za Ekonomiu Topliva, V. 9, Jan 1952, p. 1-3.

Discusses the above and presents data from tests. Includes sketches.

Performance figures are given for the author's furnace, examples of which have been operation satisfactorily under boilers for four years. It has two chambers in series, forming a W. in section. In the first chamber peat particles are met we air blasts and kept rotating clockwise about a horizontal axis, which larger pieces burn on a grate at the bottom. In the second chamber the gases from the first are burned and 60% of the ash collects on a grate at the bottom. 10% of the ash stays in the first chamber and 30% is carried away.

KOLOBANOV, E. V.

Fitting the Central Air Heater in Boiler Houses. Leks Promishlenost (Light Industry), #11:38:Nov. 1955

KOLOBANOV						
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AUTHOR:

Kolobashkin, B.M.

TITLE:

Investigations Relating to Cast and Hammered Heat-Resisting Steels

PERIODICAL: Liteynoye proizvodstvo, 1960, No. 12, pp. 34 - 36

TEXT: The fact that form castings are widely used shows that they have advantages as compared with hammered and stamped products. For instance, structural changes, emisotropy, etc., taking place during the deformation of steel, are not encountered in castings. From the works of N.I. Korneyev and N.G. Skugaret Plastic Deformation of High-Alloy Steels (Ref. 3) and Golikov, I.N.: Dendrite Segregation in Steel (Ref. 4) and experience the conclusion may be drawn that the strength properties of cast and hammered steels are the same at room temperature (20°), but at high temperatures cast heat-resistant steels and alloys have certain advantages compared with hammered and stemped steel. In order to verify these suppositions and in view of the importance of increasing the heat-resistance of alloys, tests were carried out under the supervision of S.T. Kishkin, Doctor of Technical Sciences, Professor, with discs (diameter 400 mm, thickness 40 mm) produced partly by centrifugal die-casting and partly by stamping from billets,

Card 1/6

Investigations Relating to Cast and Hammered Heat-Resistant Steels

made of 3W481 (EI481) type steel. In the chemical composition and the microstructure there was no considerable difference between the two types of samples. The determination of the mechanical properties of EI481 steel was carried out with a material which had been subjected to the conventional heat treatment (hardening of the hammered steel in water at 1,140°C for 80 min, of the cast steel 1,200°C for 3 h; two-stage aging with heating to 650°C for 16 h and to  $775^{\circ}$ C for 10 - 16 h). It was found that in the cast samples the direction of cutting had no influence on the mechanical properties, whereas in hammered steel the direction of the fibres was very important. Testing hammered and cast steel (of EI481 steel) on mechanical properties, poured in arc furnaces in two directions showed (Table 1) that the plasticity of hammered steel across the fibre is three times lower than the plasticity along the fibre. When testing the mechanical properties of cast and hammered steels. along the fibre during short-term breaking, in the 20 - 700°C temperature range (Fig. 2) it was found that the strength decreased when the temperature was raised to a lesser degree in cast specimens than in hammered samples. Relative elongation decreased in hammered steel with rising temperature, but did not change under similar conditions in cast steel (at 300°C and up this property for both kinds of metals was between Card 2/6

Investigations Relating to Cast and Hammered Heat-Resistant Steels

14 - 18%). Lateral contraction increased at higher temperatures in both kinds of metals, but more intensively in cast metal. The heat-resistance - at 650 and 700°C - was higher for the EI481 type cast steel than for harmered steel of the same brand (Table 2). The temperature influence on the hardness of cast and hammered steel was tested on discs which had been subjected to the above mentioned heat treatment and to aging at 400 - 800°C (aging time for all tests 10 h). When the hardness after aging was measured, it was found that the softening of cast steel started at a temperature 50°C higher than that of hammered steel. When investigating the relationship between the softening of cast and hammered steels and holding time (0 - 150 h at 780 - 800°C, it was found that hammered steel softened more intensively at 800°C and after 70 h holding time its softening was complete. This shows that the softening of cast steel starts at higher temperatures than that of hammered steel, whereas hardly any softening can be observed in cast steel. Moreover, in order to obtain after aging the same degree of hardness for cast and hammered steels of the same type, the aging temperature or the aging time has to be increased for cast steel. This can be explained by the decrease in the velocity of diffusion of cast metal. Both type of samples were also investigated for softening and destruction under the simultaneous influence of

Card 3/6

Investigations Relating to Cast and Hammered Heat-Resistant Steels

temperature and load (load  $32 \text{ kg/mm}^2$  at  $700^{\circ}\text{C}$  for 0 - 90 h, then short-term rupture at  $700^{\circ}\text{C}$ ). When the primary loading time was increased, the actual strength limit of hammered steel decreased steeply, but under the same conditions the strength limit of cast steel first decreased slightly and then rose. After a loading period of 60 - 90 h the actual strength limit of cast steel was 33 - 60% higher than that of hammered steel. The curves  $S_k$  of cast and hammered steel interest at a certain point, but then they diverge and show that after a loading time of 60 - 90 h the strength limit of cast steel is higher than that of hammered steel. The curves plotted for relative contraction and relative elongation, which intersect at a holding time range of 10 - 15 h, under primary loading are remarkably analogous. After loading for 60 - 90 h, the absolute values of relative contraction and relative elongation are twice, sometimes three times greater than those for hammered steel. There are 6 figures, 2 tables and 4 Soviet references.

Card 4/6

s/128/62/000/002/002/007 A004/A127

Producing castings from scab-sensitive alloys by the vacuum method Tuchkevion, N.M.; Kolobashkin, B.M.

AUTHORS: and with gas shielding

TITLE !

Liteynoye prolivodstvo, ro. 2, 1962, 12 - 14 FERIODICAL:

Although scab formation is practically absent in the centrifugal casting of heat-resistant alloys containing Cr, Al, Ti, etc., a great number of publications on vacuum casting and gas-shielded Jasting reveal that also in centrifucal casting a certain protection of the metal from Oridation to nathon usetrifugal easting a certain protection of the metal from oxidation is rather use ful. The authors report on investigations carried out by V.N. Bukhteyev, Ye.G. Mcskaleva, Ye.P. Prozorova and V.A. Zhabina to establish the effect of gas-shiered centrifugal casting to protect the metal from exidation on the properties of scab-sensitive allows. scab-sensitive alloys. The centrifugal casting machine with vacuum chamber has been designed under the supervision of the authors and B.F. Milyayev, while it was built under the direction of V.L. Khersonskiy. A detailed description of the machine design and the specimen tests is given. Cast annular specimens were out into templets and subjected to tests showing their physical-mechanical pro-

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Producing castings from scab-sensitive ....

S/128/62/000/002/002/007 A004/A127

ences: 8 Soviet-bloc and 4 non-Soviet-bloc. The three references to English-language publications read as follows: Czorniak, E.S., "Precision Metal Molding", v.15, no. 10, 1957; "Metal Industry", v. 92, no. 4, 1958; "Metal Progress", v. 73, no. 5, 1958.

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n Historia, description with toxics. Chief	PERMENT :
II 45453-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/EWA(c) MJW/JD/G8 UR/0000/65/000/000/0092/0098	Ends of
ACCESSION NR: AT5011344 UR/0000/65/000/00092/0098	
AUTHOR: Kolobashkin, B. M.; Lashko, N. P.; Sorokina, K. P. 341	Crec.
Phase analysis of E1481 steel in the cast and deformed state	
Fazovyy sostav, struktura i svoystva legirovannykh staley i splavov specification, structure, and properties of allocated and allova).	:
TOPIC TACS: steel phase composition, cast steel, deformed steel, strain hardening,	
steel hear treatment, carbide distribution, steel mechanical property	SAMES S
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ABSTRACT: Steel EI481, having the composition 0.38% C, 8.90% Mn, 0.72% Si, 14%	!
$C_{\rm E}$ , 7.7% Ni, 1.26% V, 0.32% Nb, and 1.20% Mo, was subjected to phase analysis.	
The phase composition was determined after quenching from 1:50 and 1200C in the	1 1
ask state and only from 1150C in the deformed state, and aging. The carbides	
were carried out on the anodic deposits obtained. The primary carbides Me2306	
and VC dissolve almost completely in the course of homogenization at 11500, while	
in the cast steel the solution of these carbides takes place only as a result of	1.5
double homogenization at 12000. The decrease in the plasticity and impact strength	
ζ.	
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L 45453-65 ACCESSION NR: AT5011344			0
of cast steel E1481 as compar double aging is due to the pr dritic structure of the solid cast steel at 650-700C is app and to the greater quantity o compared to the deformed stee 1200C followed by quenching,	esence of primary carbide solution. The greater solution the greater solution the inhomo of Me23C6 carbides precipies. After a second homoge the process of double agi	s and the inhomogeneous tress-rupture strength o geneity of the solid soltating during aging as nization of this steel and has approximately the	den- f ution t
same kinetics and proceeds we steel after quenching from 11	th the formation of VC an	d MeggC5 as in the defor able and 1 figure.	aed
same kinetics and proceeds was steel after quenching from il	th the formation of VC an	ables and I figure:	med
same kinetics and proceeds wasteel after quenching from 11 ASSOCIATION: none	th the formation of VC an	d Megg Co as in the defor able; and I figure.	ned
same kinetics and proceeds w	(th the formation of VC an (50c, Orig. art has: 3 t	ables and I figure:	med
same kinetics and proceeds wasteel after quenching from 11 ASSOCIATION: none SURMITTED: 17Dec64	(th the formation of VC an [50c. Orig. art has: 3 to ENCLY 00	ables and I figure:	med

JD/HW/WB L 36940-66 EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) IJP(c) ACC NR: AP6019713 SOURCE ODDE: UR/0128/66/000/006/0003/0005 AUTHOR: Korolev, V. M. (Candidate of technical sciences); Kolobashkin, B. M. (Candidate of technical sciences); Zhmurina, Yu. A. (Engineer); Maslov, A. D. (Engineer); Malinina, A. D. (Technician); Kuyanova, M. H. (Technician) ORG: none TITLE: High-strength stainless steel VNL-SOURCE: Liteynoye proizvodstvo, no. 6, 1966, 3-5 TOPIC TAGS: stainless steel, high strength steel, austenitic martensite steel, precipitation hardenable steel / VNL-1 stainless steel ABSTRACT: A new austenitic-martensitic cast stainless steel designated VNL-1 has been developed. The steel contains 0.08% max C, 0.9% max Mn, 0.75% max Si, 14.07-14.60% Cr, 6.45-7.50% Ni, 0.68-0.83% Mo, 0.016-0.018% S, and 0.028-0.30% P. At room temperature the steel has a tensile strength of 111-123 kg/mm², a yield strength of 84-93 kg/mm<sup>2</sup>, an elongation of 11.8-19.07, a reduction of area of 37-45%, and  $\bullet$ notch toughness of 5—8 mkg/cm<sup>2</sup>. The corresponding figures for -196C are 161—180 kg/mm<sup>2</sup>, 107-147 kg/mm<sup>2</sup>, 9-16%, 14-21%, and 4-7%. At 500C the steel has a tensile strength of 65-80 kg/mm<sup>2</sup>, an elongation of 8-10%, and a reduction of area of 20-40%. In cyclic tests under a stress of 77.5-88 kg/mm<sup>2</sup>, the steel withstood

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UDC: 621.74:669.15-194.55

equivalent to that of E1696 and 268L steels. The steel is used for investment castings into ceramic molds. Orig. arc. has: 7 figures and 4 tables. [FM]  SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 002/ ATD PRESS: 5039		6000 has shie welc	-140 a fa: lded ls hav	irly lo arc in we a s	cles a ow not n eith trengt	ch senser the	itivit as-cas er 90	y. Th t or h kg/mm <sup>2</sup>	e stee eat-tr and a	l can eated satis	be succonditions factor	cessives tions. ry note in sea	fully well Fully th tough	heat- ness of VN	P-T 78	// . n-
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Moscow. Innhenerno-fisicheskiy institut.

Pribory i metody smallsa izlucheniy; sbornik nauchnykh rabot, vyp. 2. (Apparatus and Mathods for the Analysis of Raddation; Collection of Scientific ratus and Mathods for the Analysis of Raddation; Collection of Scientific Papers, no. 2) Moscow, Atomizdat, 1960. 166 p. 4000 copies printed.

Sponsoring Agency: Ministerstvo vymbago i srednego spetalal'nogo obrasovaniya REFER. Moskowskiy Innhenerno-fizicheskiy institut.

Ed. (Title page): Ye. L. Stolyarova, Candidate of Physics and Mathamatics; Tech. Ed.: S. M. Popora
PURFOSE: This collection of articles is intended for specialists in nuclear physics, dosimatry of nuclear radiations, and shielding.

COVERAGE: The articles were prepared by scientists of MITI (Moscow Physics and Engineering Institute) and presented at the 1957 conference of the Institute. Brief annotations to the articles have been included in the Table of Contents. No personalities are sentioned. References follow each article.

Card 1/8

Apparatus and Methods for the Analysis (Cont.)

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121

the present a cylindrical chamber is presented. The equation makes it possible to determine the true ionization density by the value of the ionization current, as well as to determine the optimum dimensions of the ionization chamber under given experimental conditions.

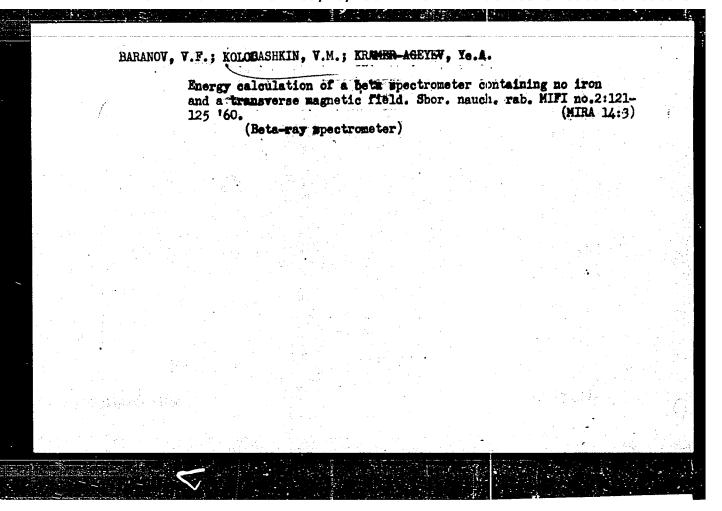
Baranov, V. F. Determination of the Spectral Composition of Screened Electron Radiation by the Absorption Method

Formulas for calculating the spectral composition of screened electron radiation by the absorption curve are presented. A comparison of the results with experimental data obtained by a beta spectrometer with a thin magnetic lens showed that the method is suitable for practical purposes.

Baranov, V. F., V. M. Kolobashkin, and Ye. A. Kramer-Ageyev. Energy Calculation of a Beta-Ray Spectrometer With a Transverse Magnetic Field and Without an Iron Component

The beta-ray spectrometer, designed for measuring beta radiation to 3 Mev, is compact and requires a maximum power of 7 kw for operation.

Card 5/8



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AUTHORS:

Baranov, V. F. Rolobashkin, V. M., Dmitriyevskiy, I. M.

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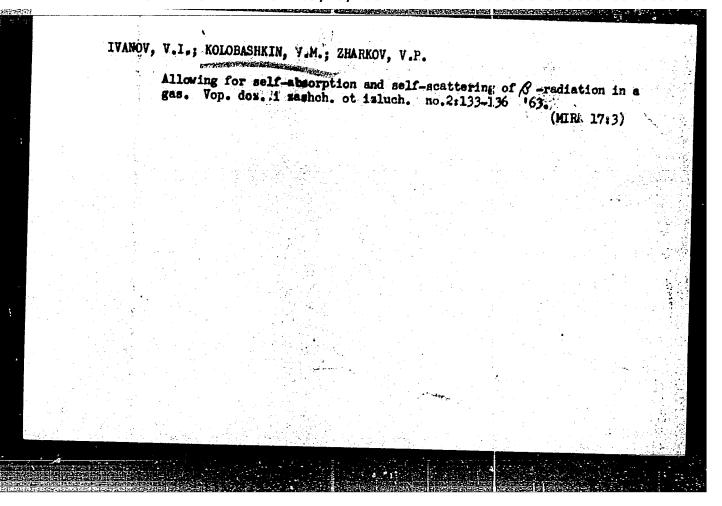
An iron-free beta-apectrometer with r =200 mm

SOURCE:

Moscow. Incheserno-fisioheskiy institut. Voprosy dozimetrii i zashchity ot izlucheniy, no. 1, 1962, 108-11?

TEXT: The iron-free magnetic beta-spectrometer with double electron focusing ( $\pi$ (2), designed, constructed and tested by Baranov, was analyzed, and on the basis of the data obtained an enlarged instrument of the same type was built. Its stable-orbit radius of 200 mm is twice that of the first model; the other parameters are the same. It is that of the first model; the other parameters are the same. It is designed for electrons of E< 3 kev. The maximum angular divergence of the beam is 11.4 (axial) and  $\frac{16.20}{16.20}$  (radial) if the solid angle is 1.5% of  $4\pi$ . The water-cooled magnet coils have a total resistance of 12.50 hms. On application, the instrument shows a relative half-width of the Cs 137 on application, the instrument shows a relative half-width of the Cs 137 diameter, and a 2 mm input slit. There are 3 figures.

Card 1/2



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9 13+

AUTHON: Folobashkin, V. M.; Shulenko, M. V.; Zharkov, V. P.

TITLE: Gas radiometry using cylindrical counters within fixed volumes

SOURCE: Mongow, Tashenerno-fizicheskiy institut, Voprosy dozumetrii i zashchity et itlucheniy, no. 1, 1964, 5-9

TOPIC TAGS: gas radiometry, counter volume, beta radiation, madiation dosimetry, counter sensitivity

ABSTRACT: The theory underlying the determination of the consentration of 12-radioactive gases using cylindrical counters within a fixed gas-filled volume (see, e.g.,
H. Gebauer, Kerntechnik, 3, 3, 130, 1961) shows that there is an optimum counter
radius resulting in an optimum counter sensitivity. However, in most practical
cases, this optimum cannot be achieved due to the finite radii of available counters. To circumvent this difficulty, the authors propose that the oreimum counter
volume be covered by a symmetrically distributed battery of 7 counters as shown in
Fig. 1 of the Enclosure. They derive the pertinent theoretical equations which,
among other things, permit the relative change in counting rate when going over

Card 1/3 2

